

WHAT IS CLAIMED IS:

5 1. A method of treating cancer in a mammal comprising administering to the mammal an effective amount of Newcastle Disease Virus in a pharmaceutically-acceptable carrier.

2. The method of Claim 1 wherein the cancer is a carcinoma.

3. The method of Claim 1 wherein the cancer is a sarcoma.

10 4. The method of Claim 1 wherein said Newcastle Disease Virus is administered in combination with another biologically or chemically active agent, both being administered in sufficient amounts so that the combination is effective against the cancer.

15 5. A method of detecting cancer cells in a mammal comprising administering Newcastle Disease Virus to the mammal and detecting the virus bound to the cancer cells.

20 6. The method of Claim 5 wherein the virus is labeled with a detectable label.

7. The method of Claim 5 wherein a labeled component that specifically binds to the virus is administered to the mammal to allow for detection of the virus bound to the cancer cells.

25 8. An imaging agent for detecting cancer comprising Newcastle Disease Virus labeled with a detectable label.

9. The imaging agent of Claim 8 wherein said detectable label is a radioisotope.

5 10. A method of detecting cancer cells in a mammal comprising administering Newcastle Disease Virus to the mammal and subsequently measuring the quantity of said virus in the body fluids or tissue of the mammal as an indication of the presence of cancer cells in the mammal.

10 11. An article of manufacture, comprising:
a container;
a label on said container; and
a composition contained within said
container;
15 wherein the composition is effective for treating and detecting cancer, the label on said container indicates that the composition can be used for treating and detecting cancer, and the active agent in said composition comprises Newcastle Disease Virus.

20 12. The article of manufacture of Claim 11 wherein said label on said container further indicates directions for in vitro and/or in vivo use of said composition.

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